

I/WE CLAIM:

- 1 1. In a method of making a circuit board holder,
2 the improvement comprising in combination:
3 providing said circuit board holder with a face
4 plate and with walls projecting from an inside of said
5 face plate;
6 equipping a pair of opposite ones of said walls with
7 circuit board retainers; and
8 equipping said circuit board holder with a holder
9 retainer for releasably retaining said circuit board
10 holder in said aperture of the panel.
- 1 2. A method as in claim 1,
2 wherein:
3 at least one of another pair of said walls is
4 provided with a lateral opening covering more than one
5 half of that one wall.
- 1 3. A method as in claim 1,
2 wherein:
3 said circuit board retainers are provided inside of
4 said circuit board holder.
- 1 4. A method as in claim 1,
2 wherein:
3 said circuit board retainers are provided externally
4 of an inside space of said circuit board holder.
- 1 5. A method as in claim 1,
2 wherein:
3 said circuit board retainers are provided inside of
4 said circuit board holder and externally of an inside

1 space of said circuit board holder.

1 6. A method as in claim 1,

2 wherein:

3 a circuit board is inserted into said circuit board
4 holder and is substantially retained in a first direction
5 inside of said circuit board holder and is substantially
6 retained in a second direction externally of an inside
7 space of said circuit board holder.

1 7. A method as in claim 1,

2 wherein:

3 said pair of opposite walls is provided with
4 extensions beyond said inside of the circuit board holder;
5 and

6 said extensions are equipped with external circuit
7 board retainers.

1 8. A method as in claim 1,

2 wherein:

3 said circuit board retainers are shaped as spaced
4 rails for slideably receiving a circuit board.

1 9. A method as in claim 1,

2 wherein:

3 said circuit board retainers are shaped as several
4 spaced rails in each of said pair of opposite walls for
5 slideably receiving at least one circuit board at one of
6 several levels in said circuit board holder.

1 10. A method as in claim 1,

2 wherein:

3 said holder retainer is shaped as a resilient snap
4 for releasably retaining said circuit board holder in a

1 panel.

1 11. A method as in claim 1,

2 wherein:

3 said holder retainer is shaped as a pair of
4 resilient snaps at said pair of opposite walls for
5 releasably retaining said circuit board holder in a panel.

1 12. A method as in claim 1,

2 wherein:

3 a circuit board is inserted in said circuit board
4 holder and is releasably retained with said circuit board
5 retainers inside of said circuit board holder.

1 13. A method as in claim 1,

2 wherein:

3 said circuit board holder is provided with external
4 circuit board retainers in addition to internal circuit
5 board retainers; and

6 a circuit board is inserted in said circuit board
7 holder and is releasably retained with said internal
8 circuit board retainers inside of said circuit board
9 holder and is releasably retained in said circuit board
10 holder with said external circuit board retainers.

1 14. A method as in claim 1,

2 wherein:

3 said circuit board holder is provided with spaced
4 external circuit board retainers in addition to internal
5 circuit board retainers;

6 a circuit board is provided with a frontal portion
7 of reduced width relative to a subsequent main portion of
8 said circuit board; and

1 said circuit board is inserted in said circuit
2 board holder by inserting said frontal portion of reduced
3 width in between said spaced external circuit board
4 retainers and by thereupon forcing apart said spaced
5 external circuit board retainers with said main portion of
6 said circuit board and continuing insertion of said
7 circuit board into said circuit board holder so that said
8 circuit board is releasably retained with said internal
9 circuit board retainers inside of said circuit board
10 holder and is stabilized in said circuit board holder with
11 said external circuit board retainers.

1 15. A method as in claim 1,

2 wherein:

3 said circuit board retainers are shaped as spaced
4 rails for slideably receiving a circuit board; and

5 said circuit board holder is equipped with circuit
6 board accommodations at said rails at a distance from a
7 rear of said face plate.

1 16. A method as in claim 1,

2 wherein:

3 said circuit board retainers are shaped as spaced
4 rails for slideably receiving a circuit board; and

5 said circuit board holder is equipped with circuit
6 board stops at said rails at a distance from a rear of
7 said face plate.

1 17. A method as in claim 1,

2 wherein:

3 said circuit board holder is provided with spaced
4 external circuit board retainers in addition to internal

1 circuit board retainers;

2 a circuit board is provided with catches
3 corresponding to said external circuit board retainers;
4 and

5 said circuit board is inserted in said circuit
6 board holder and is retained in said circuit board holder
7 with said external circuit board retainers and
8 corresponding catches.

1 18. A method as in claim 1,

2 wherein:

3 said holder retainer is provided with serrations
4 for mounting said circuit board holder in different
5 mounting panels.

6
7 19. A method as in claim 1,

8 including:

9 providing a panel with an aperture for receiving
10 said circuit board holder;

11 providing said panel with a slot at said aperture
12 for access to said holder retainer through said panel; and

13 effecting release of said holder retainer through
14 said slot for removal of said circuit board holder from
15 said panel.

1 20. A method as in claim 1,

2 including:

3 shaping said holder retainer as a resilient snap
4 for releasably retaining said circuit board holder in a
5 panel;

6 providing a panel with an aperture for receiving
7 said circuit board holder;

8 providing said panel with a slot at said aperture
9 for access to said resilient snap through said panel; and

1 effecting release of said resilient snap through
2 said slot for removal of said circuit board holder from
3 said panel.

1 21. A method as in claim 20,
2 including:

3 providing a tool insertable through said slot; and
4 releasing said resilient snap with said tool
5 through said slot in said panel.

1 22. A method of mounting a device in an aperture of a
2 panel, comprising in combination:

3 providing said device with a resilient snap for
4 releasably retaining said device in said panel at said
5 aperture;

6 providing said panel with a slot at said aperture
7 for access to said resilient snap through said panel; and

8 releasing said resilient snap through said slot for
9 removal of said device from said panel.

1 23. A method as in claim 22,
2 including:

3 providing a tool insertable through said slot; and
4 releasing said resilient snap with said tool
5 through said slot in said panel.

1 24. A method as in claim 22,
2 wherein:

3 said holder retainer is provided with serrations
4 for mounting said resilient snap in different mounting
5 panels.

1 25. A circuit board holder,
2 comprising in combination:

1 a face plate and walls projecting from an inside of
2 said face plate;
3 circuit board retainers at a pair of opposite ones
4 of said walls; and
5 a holder retainer at an edge of said face plate.

1 26. A circuit board holder as in claim 25,
2 wherein:
3 at least one of another pair of said walls has a
4 lateral opening covering more than one half of that one
5 wall.

1 27. A circuit board holder as in claim 25,
2 wherein:
3 said circuit board retainers are inside of said
4 circuit board holder.

1 28. A circuit board holder as in claim 25,
2 wherein:
3 said circuit board retainers are external of an
4 inside space of said circuit board holder.

1 29. A circuit board holder as in claim 25,
2 wherein:
3 said circuit board retainers are inside of said
4 circuit board holder and are external of an inside space
5 of said circuit board holder.

1 30. A circuit board holder as in claim 25,
2 wherein:
3 said pair of opposite walls has extensions beyond
4 an inside of the circuit board holder; and
5 circuit board retainers are on said extensions.

1 31. A circuit board holder as in claim 25,
2 wherein:

3 said circuit board retainers include spaced rails
4 on said pair of opposite walls inside of said circuit
5 board holder.

1 32. A circuit board holder as in claim 25,
2 wherein:

3 said circuit board retainers include several spaced
4 rails in each of said pair of opposite walls.

1 33. A circuit board holder as in claim 25,
2 wherein:

3 said holder retainer is a resilient snap.

1 34. A circuit board holder as in claim 25,
2 wherein:

3 said holder retainer includes a pair of resilient
4 snaps at said pair of opposite walls.

1 35. A circuit board holder as in claim 25,
2 including:

3 an inserted circuit board extending across said
4 circuit board holder between said pair of opposite walls
5 and circuit board retainers.

1 36. A circuit board holder as in claim 25,
2 including:

3 extensions of said pair of opposite walls beyond an
4 inside of the circuit board holder;

5 circuit board retainers on said extensions; and

6 an inserted circuit board extending across said
7 circuit board holder between said pair of opposite walls
8 and extending between said circuit board retainers on said

1 extensions.

2 37. A circuit board holder as in claim 25,

3 wherein:

4 said circuit board retainers include spaced rails
5 on said pair of opposite walls inside of said circuit
6 board holder; and

7 said circuit board holder has circuit board
8 accommodations at said rails at a distance from a rear of
9 said face plate.

1 38. A circuit board holder as in claim 25,

2 wherein:

3 said circuit board retainers include spaced rails
4 on said pair of opposite walls inside of said circuit
5 board holder; and

6 said circuit board holder has circuit board stops
7 at said rails at a distance from a rear of said face
8 plate.

1 39. A circuit board holder as in claim 25,

2 including:

3 an inserted circuit board having lateral catches
4 externally of a space inside said circuit board holder;

5 extensions of said pair of opposite walls; and

6 circuit board retainers on said extensions and
7 lateral catches.

1 40. A circuit board holder as in claim 25,

2 including:

3 an aperture in said face plate; and

4 a signal lamp in said aperture.

1 41. A circuit board holder as in claim 25,

2 including:

1 panel-accommodating serrations in said holder
2 retainer.

1 42. A circuit board holder as in claim 25,
2 in combination with:

3 a panel having an aperture adapted to receive said
4 walls of said circuit board holder behind said face plate;
5 and

6 a slot in said panel at said aperture exposing said
7 holder retainer through said panel at an edge of said
8 aperture in said panel.

1 43. A combination as in claim 42,
2 including:

3 a holder retainer release tool having lateral
4 dimensions smaller than said slot.

1 44. In combination:

2 a panel having an aperture;

3 a device retained in said aperture by a resilient
4 snap at an edge of said aperture; and

5 a slot in said panel at said aperture exposing said
6 resilient snap through said panel at an edge of said
7 aperture in said panel.

1 45. A combination as in claim 44,

2 including:

3 a snap release tool having lateral dimensions
4 smaller than said slot.

1 46. A combination as in claim 44,

2 including:

3 panel-accommodating serrations in said resilient
4 snap.